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APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. FIRST NAMED INVENTOR CONFIRMATION NO. 10/040,906 01/09/2002 58764.000036 1498 Greta Arnaut 21967 7590 02/09/2006 **EXAMINER HUNTON & WILLIAMS LLP** KUBELIK, ANNE R INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. **ART UNIT** PAPER NUMBER **SUITE 1200** 1638 WASHINGTON, DC 20006-1109

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/040,906	ARNAUT ET AL.		
Examiner	Art Unit		
Anne R. Kubelik	1638		

	Anne R. Kubelik	1638	
The MAILING DATE of this communication appear	ers on the cover sheet with the d	correspondence add	ress
THE REPLY FILED 17 January 2006 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliance time periods:	ing replies: (1) an amendment, affice of Appeal (with appeal fee) in (fidavit, or other eviden compliance with 37 Cl	ce, which FR 41.31; or (3)
a) The period for reply expiresmonths from the mailing	date of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this Aconomic event, however, will the statutory period for reply expire la		•	
Examiner Note: If box 1 is checked, check either box (a) or (I TWO MONTHS OF THE FINAL REJECTION. See MPEP 70	6.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extender 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount hortened statutory period for reply orig than three months after the mailing da	of the fee. The appropri inally set in the final Office	ate extension fee ce action; or (2) as
2. ☑ The Notice of Appeal was filed on <u>1/17/06</u> . A brief in com	oliance with 37 CFR 41 37 must be	e filed within two mon	ths of the date
of filing the Notice of Appeal (37 CFR 41.37(a)), or any ex Since a Notice of Appeal has been filed, any reply must be	tension thereof (37 CFR 41.37(e))	, to avoid dismissal of	the appeal.
AMENDMENTS			
 The proposed amendment(s) filed after a final rejection, to (a) They raise new issues that would require further cor 	·		ecause
(b) They raise the issue of new matter (see NOTE below	•	TE Delow),	
(c) They are not deemed to place the application in bett appeal; and/or	••	educing or simplifying	the issues for
(d) They present additional claims without canceling a control NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally rej	ected claims.	
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Co	ompliant Amendment (PTOL-324).
5. 🔯 Applicant's reply has overcome the following rejection(s):	_	-	
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	owable if submitted in a separate,	timely filed amendme	nt canceling the
7. Tor purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is proved the status of the claim(s) is (or will be) as follows: Claim(s) allowed:		Il be entered and an e	xplanation of
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected:			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE	hafara ar an tha data of filing a N	otics of Annual will no	t he entered
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 	_	• • • • • • • • • • • • • • • • • • • •	
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary	vercome all rejections under appe	al and/or appellant fai	ls to provide a
10. The affidavit or other evidence is entered. An explanation	•	` ' '	•
11. The request for reconsideration has been considered but See Continuation Sheet.	does NOT place the application in	n condition for allowar	nce because:
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper N	No(s)	
10. L. Ouici			

Continuation of 11. does NOT place the application in condition for allowance because:

Claims 83 under 102(e) over Baum: Applicant urges that Baum et al does not disclose protecting a plant from Anticarsia gemmatalis. This is not found persuasive because applying the protein of SEQ ID NO:2, as taught in Baum, would inherently be a method of protecting a plant from A. gemmatalis. Applicant urges that claim 83 is non-obvious. This is not persuasive, as the rejection is one of anticipation, not obviousness.

Claims 58, 77 and 80 under 103(a) over Baum in view of Audtho and further in view of Schnepf: Applicant urges that the prior art does not provide any motivation to combine the reference teachings because the prior art does not teach or suggest the desirability of Applicant's invention: Audtho discloses Cry2Ae and there is no motivation to combine the disclosures. This is not found persuasive because Schnepf provides the motivation - truncation allows more effective expression in plants and avoids insect resistance (pg 793, left column, paragraph 3, and pg 795, left column, paragraph 2). Applicant urges that the Office action does not explain why one would be motivated to apply teachings relating to one protein to a different protein with about a 10% sequence difference. This is not found persuasive. Schnepf indicates that truncation improved expression with several different Cry proteins (pg 793, left column, paragraph 3) and a desire to avoid insect resistance is not limited to only one Cry protein. Applicant urges that 'Corbin et al demonstrates that different Cry2A protein types act in different manners when expressed in plants. This is not found persuasive, as Corbin et al is not drawn to truncation but to addition of the TpssuAt transit peptide to a Cry protein. Applicant urges that Schnepf does not provide motivation to combine, as the cited papers are drawn to Cry1Aa and Cry1Ab proteins that were truncated at their C-terminus. This is not found persuasive; without the cited papers, Applicant's arguments are only unsupported assertions. The cited papers were not sent and could not be considered even if they were, as Applicant must provide a good and sufficient reason why they are necessary and not sent earlier. Additionally, Audtho et al teaches that proteolytic activation of the protoxin is an important factor in insect resistance to the toxin (pg 4603, right column, paragraph 2) and that the protein with the 49 amino acid truncation was more toxin than the 63KDa protein (table 1). Applicant urges that the statement in Schnepf is general and not directed to a specific Cry protein, and that the Cry2A proteins are already the size of a truncated Cry1A protein. This is not found persuasive because the Cry2A proteins are the size of the C-terminal truncated Cry1A proteins, not the N-terminal truncated proteins.

Claims 71 and 76 under 35 U.S.C. 103(a) over Baum in view of Meulewaeter; Applicant urges that their amending the dependence to claim 57 and 58 makes the claim non-obvious. This is not found persuasive, as Claim 58 is obvious, as discussed above. The rejection because of Applicant amendment of the claims would be over Baum in view of Audtho and further in view of Schnepf and Meulewaeter.